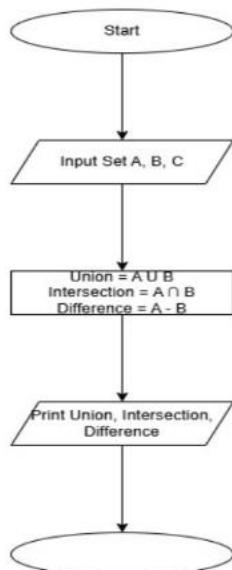


### **4.1.1- CELSIUS TO FARENHEIT**

ALGORITHM:

- **Start.**
- **Get Set A:** Ask the user for numbers, split them by spaces, and store them as a set of integers called set\_a.
- **Get Set B:** Ask the user for numbers, split them by spaces, and store them as a set of integers called set\_b.
- **Find Union:** Create a new set containing all unique numbers from both set\_a and set\_b.
- **Find Intersection:** Create a new set containing only the numbers that appear in both set\_a and set\_b.
- **Find Difference:** Create a new set containing numbers that are in set\_a but **not** in set\_b.
- **Display Results:** Print the results for Union, Intersection, and Difference clearly.
- **End.**

FLOWCHART:



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CODE:

The screenshot shows a Python code editor interface with the following details:

- Title Bar:** nirmayee.kadam.batch2025@sitnagpur.siu.edu.in ▾ Support Logout
- Section:** 4.1.1. Set Operations
- Description:** Write a Python program to perform union, intersection and difference operations on *Set A* and *Set B*.
- Input Format:**
  - First Line prompts "Set A: " followed by space-separated list of integers for *Set A*.
  - The second input prompts "Set B: " followed by space-separated list of integers for *Set B*.
- Output Format:**
  - The first line prints "Union: " followed by the union of *Set A* and *Set B*.
  - The second line prints "Intersection: " followed by the intersection of *Set A* and *Set B*.
  - The third line prints "Difference: " followed by the difference of *Set A* and *Set B*.
- Code Area:** A code editor titled "setoperat..." showing the following Python code:

```
1 set_a=set(map(int, input("Set A:").split()))
2 set_b=set(map(int, input("Set B:").split()))
3
4 union_set = set_a | set_b
5 intersection_set= set_a & set_b
6 difference_set == set_a - set_b
7
8 #Result
9 print("Union:",union_set)
10 print("Intersection:",intersection_set)
11 print("Difference:", difference_set)
```
- Toolbars:** Explorer, Debugger